

What is claimed is:

1. A thermal fuse comprising:

a fusible alloy including tin;

a couple of lead conductors connected to both ends of said fusible

5 alloy, respectively; and

surface layers made of metal including tin provided on said lead  
conductors, respectively, said surface layers having thicknesses not greater  
than 14 $\mu$ m.

10 2. The thermal fuse according to claim 1, wherein said surface layers  
are made of tin.

3. The thermal fuse according to claim 1, wherein said surface layers  
include silver.

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4. The thermal fuse as defined in claim 3, wherein said surface layers  
include copper.

5. The thermal fuse according to claim 4, wherein said surface layers  
20 include bismuth.

6. The thermal fuse according to claim 1, wherein said surface layers  
include copper.

25 7. The thermal fuse according to claim 1, wherein said surface layers  
include bismuth.

8. The thermal fuse according to claim 1, wherein said surface layers have composition having no orientation.

9. The thermal fuse according to claim 1, wherein said thicknesses of  
5 said surface layers are not less than  $1\mu\text{m}$ .

10. A method of manufacturing a thermal fuse, comprising the steps of:  
preparing a fusible alloy including tin, and a couple of lead  
conductors having surface layers formed thereon, respectively, the surface  
10 conductors being made of metal including tin and having thicknesses not  
greater than  $14\mu\text{m}$ ; and  
connecting the lead conductors to both ends of the fusible alloy,  
respectively.

15 11. The method according to claim 10, wherein the surface layers are  
made of tin.

12. The method according to claim 10, wherein the surface layers  
include silver.

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13. The method according to according to claim 12, wherein the surface  
layers include copper.

14. The method according to claim 13, wherein the surface layers  
25 include bismuth.

15. The method according to claim 10, wherein the surface layers

include copper.

16. The method according to claim 10, wherein the surface layers include bismuth.

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17. The method according to claim 10, wherein the surface layers have composition having no orientation.

18. The method according to in claim 10, wherein the thicknesses of the  
10 surface layers are not less than  $1\mu\text{m}$ .